

C. Kauffman

Serial Number: 09/457,864

CRF Processing Date: 8/21/2001
Edited by: A
Verified by: A (STIC stat)

ENTERED

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included: ..

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

Other:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/457,864

DATE: 08/21/2001
TIME: 15:16:08

Input Set : N:\jumbos\457864.txt
Output Set: N:\CRF3\08212001\I457864.raw

4 <110> APPLICANT: Pioneer HiBred International
5 Bulla, Lee A.
7 <120> TITLE OF INVENTION: RECEPTOR FOR A BACILLUS THURINGIENSIS
8 TOXIN
10 <130> FILE REFERENCE: 27112-20037.13
12 <140> CURRENT APPLICATION NUMBER: 09/457,864
13 <141> CURRENT FILING DATE: 1999-12-10
15 <150> PRIOR APPLICATION NUMBER: US 08/326,117
16 <151> PRIOR FILING DATE: 1994-10-19
18 <160> NUMBER OF SEQ ID NOS: 15
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 5582
24 <212> TYPE: DNA
25 <213> ORGANISM: M. sexta
27 <220> FEATURE:
28 <221> NAME/KEY: CDS
29 <222> LOCATION: (197)...(5348)
31 <400> SEQUENCE: 1
32 gaccaatcg agtgtggta attttggaa aatattttgt gcgggtccctt tagttgtgt 60
33 atatagtact ttagttacaa atttggata atttggcagc aaaaccatct gcagcaacaa 120
34 aatcatctgc agctgcgaaa tcatctgcag cagaaaagc atcttcagga gcgagaaaaag 180
35 ccccaaataa tgtgag atg gca gtt gac gtc cga atc gct gcc ttc ctg ctg 232
36 Met Ala Val Asp Val Arg Ile Ala Ala Phe Leu Leu
37 1 5 10
39 gtg ttt ata gcg cct gca gtt tta gct caa gag aga tgt ggg tat atg 280
40 Val Phe Ile Ala Pro Ala Val Leu Ala Gln Glu Arg Cys Gly Tyr Met
41 15 20 25
43 acc gcc atc cca agg cta cca cga ccg gat aat ttg cca gta cta aat 328
44 Thr Ala Ile Pro Arg Leu Pro Arg Pro Asp Asn Leu Pro Val Leu Asn
45 30 35 40
47 ttt gaa ggc cag aca tgg agt cag agg ccc ctg ctc ccc gcc ccg gag 376
48 Phe Glu Gly Gln Thr Trp Ser Gln Arg Pro Leu Leu Pro Ala Pro Glu
49 45 50 55 60
51 cgg gat gac ctg tgc atg gac gcc tac cac gtg ata aca gcc aac ctc 424
52 Arg Asp Asp Leu Cys Met Asp Ala Tyr His Val Ile Thr Ala Asn Leu
53 65 70 75
55 ggc acg cag gtc atc tac atg gat gaa gag ata gaa gac gaa atc acc 472
56 Gly Thr Gln Val Ile Tyr Met Asp Glu Glu Ile Glu Asp Glu Ile Thr
57 80 85 90
59 atc gcc ata ctt aat tat aac gga cca tca act ccg ttc att gaa ctg 520
60 Ile Ala Ile Leu Asn Tyr Asn Gly Pro Ser Thr Pro Phe Ile Glu Leu
61 95 100 105
63 cca ttt tta tcc ggt tcg tac aat ctg ctg atg ccg gtc atc agg aga 568
64 Pro Phe Leu Ser Gly Ser Tyr Asn Leu Leu Met Pro Val Ile Arg Arg
65 110 115 120
67 gtt gac aac ggg gag tgg cat ctc atc atc acg caa aga cag cat tac 616

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/457,864

DATE: 08/21/2001
TIME: 15:16:08

Input Set : N:\jumbos\457864.txt
Output Set: N:\CRF3\08212001\I457864.raw

68 Val Asp Asn Gly Glu Trp His Leu Ile Ile Thr Gln Arg Gln His Tyr			
69 125 130 135 140			
71 gag ttg ccc ggc atg cag cag tac atg ttc aat gtg cgc gtc gac ggc	664		
72 Glu Leu Pro Gly Met Gln Gln Tyr Met Phe Asn Val Arg Val Asp Gly			
73 145 150 155			
75 cag tcg ctg gtc gca ggc gtc tct ctc gct atc gtc aac ata gat gac	712		
76 Gln Ser Leu Val Ala Gly Val Ser Leu Ala Ile Val Asn Ile Asp Asp			
77 160 165 170			
79 aac gcg ccc atc ata caa aac ttc gag cct tgc cgg gtt cct gaa ctg	760		
80 Asn Ala Pro Ile Ile Gln Asn Phe Glu Pro Cys Arg Val Pro Glu Leu			
81 175 180 185			
83 ggc gag cca ggg ttg aca gaa tgc aca tac caa gta tcg gac gcg gac	808		
84 Gly Glu Pro Gly Leu Thr Glu Cys Thr Tyr Gln Val Ser Asp Ala Asp			
85 190 195 200			
87 gga cgg atc agc aca gag ttc atg acg ttc agg atc gac agc gtt cgt	856		
88 Gly Arg Ile Ser Thr Glu Phe Met Thr Phe Arg Ile Asp Ser Val Arg			
89 205 210 215 220			
91 ggc gac gag gag acc ttc tac atc gaa cgg acg aat atc ccc aac caa	904		
92 Gly Asp Glu Glu Thr Phe Tyr Ile Glu Arg Thr Asn Ile Pro Asn Gln			
93 225 230 235			
95 tgg atg tgg cta aat atg acc ata ggc gtt aat acc tcg ctc aac ttc	952		
96 Trp Met Trp Leu Asn Met Thr Ile Gly Val Asn Thr Ser Leu Asn Phe			
97 240 245 250			
99 gtc acc agt ccg ctg cat ata ttc agc gtg aca gcc ctg gac tcg ctc	1000		
100 Val Thr Ser Pro Leu His Ile Phe Ser Val Thr Ala Leu Asp Ser Leu			
101 255 260 265			
103 ccg aac acc cac acg gtg act atg atg gtg caa gtg gcg aat gtg aac	1048		
104 Pro Asn Thr His Thr Val Thr Met Met Val Gln Val Ala Asn Val Asn			
105 270 275 280			
107 agc cgt ccg ccg cgc tgg ctg gag atc ttc gct gtc caa cag ttt gaa	1096		
108 Ser Arg Pro Pro Arg Trp Leu Glu Ile Phe Ala Val Gln Gln Phe Glu			
109 285 290 295 300			
111 gag aaa tct tac caa aac ttc aca gtg agg gcg atc gac gga gac act	1144		
112 Glu Lys Ser Tyr Gln Asn Phe Thr Val Arg Ala Ile Asp Gly Asp Thr			
113 305 310 315			
115 gag atc aat atg cct atc aac tac agg ctg atc aca aat gag gaa gac	1192		
116 Glu Ile Asn Met Pro Ile Asn Tyr Arg Leu Ile Thr Asn Glu Glu Asp			
117 320 325 330			
119 aca ttc ttc agc att gag gcc ctg cct ggt gga aaa agc ggg gct gta	1240		
120 Thr Phe Phe Ser Ile Glu Ala Leu Pro Gly Gly Lys Ser Gly Ala Val			
121 335 340 345			
123 ttc ctc gtg tcg cca att gac cgc gac aca ctg caa cga gag gtg ttt	1288		
124 Phe Leu Val Ser Pro Ile Asp Arg Asp Thr Leu Gln Arg Glu Val Phe			
125 350 355 360			
127 cca ctt acg atc gtc gct tac aaa tat gat gag gag gcc ttc tcc aca	1336		
128 Pro Leu Thr Ile Val Ala Tyr Lys Tyr Asp Glu Glu Ala Phe Ser Thr			
129 365 370 375 380			
131 tca aca aac gtg gtc atc att gtg aca gac atc aac gac caa aga cct	1384		
132 Ser Thr Asn Val Val Ile Ile Val Thr Asp Ile Asn Asp Gln Arg Pro			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/457,864

DATE: 08/21/2001
TIME: 15:16:08

Input Set : N:\jumbos\457864.txt
Output Set: N:\CRF3\08212001\I457864.raw

133	385	390	395	
135	gaa cct ata cac aag gaa tat cga ctg gca atc atg gag gag acg ccc			1432
136	Glu Pro Ile His Lys Glu Tyr Arg Leu Ala Ile Met Glu Glu Thr Pro			
137	400	405	410	
139	ctg acc ctc aac ttc gat aaa gaa ttc gga ttt cat gat aag gat tta			1480
140	Leu Thr Leu Asn Phe Asp Lys Glu Phe Gly Phe His Asp Lys Asp Leu			
141	415	420	425	
143	ggt caa aac gct cag tac acg gtg cgt cta gag agc gtg gac cct cca			1528
144	Gly Gln Asn Ala Gln Tyr Thr Val Arg Leu Glu Ser Val Asp Pro Pro			
145	430	435	440	
147	ggc gct gct gag gca ttc tac ata gcg cct gaa gtc ggc tac cag cga			1576
148	Gly Ala Ala Glu Ala Phe Tyr Ile Ala Pro Glu Val Gly Tyr Gln Arg			
149	445	450	455	460
151	cag acc ttc atc atg ggc acc ctc aat cac tcc atg ctg gat tac gaa			1624
152	Gln Thr Phe Ile Met Gly Thr Leu Asn His Ser Met Leu Asp Tyr Glu			
153	465	470	475	
155	gtg cca gag ttt cag agt att acg att cgg gtg gta gcg acc gac aac			1672
156	Val Pro Glu Phe Gln Ser Ile Thr Ile Arg Val Val Ala Thr Asp Asn			
157	480	485	490	
159	aac gac acg agg cac gtg ggc gtc gcg ttg gtt cac att gac ctc atc			1720
160	Asn Asp Thr Arg His Val Gly Val Ala Leu Val His Ile Asp Leu Ile			
161	495	500	505	
163	aat tgg aac gat gag cag ccg atc ttc gaa cac gcc gtg cag acc gtc			1768
164	Asn Trp Asn Asp Glu Gln Pro Ile Phe Glu His Ala Val Gln Thr Val			
165	510	515	520	
167	acc ttc gac gag act gaa ggc gag ggg ttc ttc gtc gcc aag gcg gtt			1816
168	Thr Phe Asp Glu Thr Glu Gly Glu Phe Phe Val Ala Lys Ala Val			
169	525	530	535	540
171	gca cac gac aga gac atc ggg gat gtc gtc gag cat act tta ttg ggt			1864
172	Ala His Asp Arg Asp Ile Gly Asp Val Val Glu His Thr Leu Leu Gly			
173	545	550	555	
175	aac gct gtt aac ttc ctg acc atc gac aaa ctc acc ggc gac atc cgc			1912
176	Asn Ala Val Asn Phe Leu Thr Ile Asp Lys Leu Thr Gly Asp Ile Arg			
177	560	565	570	
179	gtc tca gct aac gac tcc ttc aac tac cat cga gaa agt gaa tta ttt			1960
180	Val Ser Ala Asn Asp Ser Phe Asn Tyr His Arg Glu Ser Glu Leu Phe			
181	575	580	585	
183	gtg cag gtg cga gct aca gac acg ctg ggc gaa ccc ttc cac acg gcg			2008
184	Val Gln Val Arg Ala Thr Asp Thr Leu Gly Glu Pro Phe His Thr Ala			
185	590	595	600	
187	acg tca cag ctg gtc ata cga cta aat gac atc aac aac acg cca ccc			2056
188	Thr Ser Gln Leu Val Ile Arg Leu Asn Asp Ile Asn Asn Thr Pro Pro			
189	605	610	615	620
191	acc tta cgg ctg cct cga ggc agt ccc caa gtg gag gag aac gtg cct			2104
192	Thr Leu Arg Leu Pro Arg Gly Ser Pro Gln Val Glu Glu Asn Val Pro			
193	625	630	635	
195	gat ggc cac gtc atc acc cag gag tta cgc gcc acc gac ccc gac acc			2152
196	Asp Gly His Val Ile Thr Gln Glu Leu Arg Ala Thr Asp Pro Asp Thr			
197	640	645	650	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/457,864

DATE: 08/21/2001
TIME: 15:16:08

Input Set : N:\jumbos\457864.txt
Output Set: N:\CRF3\08212001\I457864.raw

199 acg gcc gat ctg cgc ttc gag ata aac tgg gac acc tct ttc gcc acc	2200
200 Thr Ala Asp Leu Arg Phe Glu Ile Asn Trp Asp Thr Ser Phe Ala Thr	
201 655 660 665	
203 aag caa ggc cgc cag gct aac ccc gac gag ttt agg aat tgc gtg gaa	2248
204 Lys Gln Gly Arg Gln Ala Asn Pro Asp Glu Phe Arg Asn Cys Val Glu	
205 670 675 680	
207 atc gag acc atc ttc ccc gag att aac aac cgg gga ctg gct atc ggc	2296
208 Ile Glu Thr Ile Phe Pro Glu Ile Asn Asn Arg Gly Leu Ala Ile Gly	
209 685 690 695 700	
211 cgc gtt gta gcg cgc gaa atc aga cac aac gtg acc ata gac tac gag	2344
212 Arg Val Val Ala Arg Glu Ile Arg His Asn Val Thr Ile Asp Tyr Glu	
213 705 710 715	
215 gag ttt gag gtc ctc tcc ctc aca gtg agg gtg cgt gac ctt aac acc	2392
216 Glu Phe Glu Val Leu Ser Leu Thr Val Arg Val Arg Asp Leu Asn Thr	
217 720 725 730	
219 gtc tac gga gac gac tac gac gaa tcg atg ctc aca ata act ata atc	2440
220 Val Tyr Gly Asp Asp Tyr Asp Glu Ser Met Leu Thr Ile Thr Ile Ile	
221 735 740 745	
223 gat atg aac gac aac gcg ccg gtg tgg gtg gag ggg act ctg gag cag	2488
224 Asp Met Asn Asp Asn Ala Pro Val Trp Val Glu Gly Thr Leu Glu Gln	
225 750 755 760	
227 aac ttc cga gtc cgc gag atg tcg gcg ggg ctc gtg gtg ggc tcc	2536
228 Asn Phe Arg Val Arg Glu Met Ser Ala Gly Gly Leu Val Val Gly Ser	
229 765 770 775 780	
231 gtg cgc gcg gac gac atc gac gga ccg ctc tac aac caa gtg cga tac	2584
232 Val Arg Ala Asp Asp Ile Asp Gly Pro Leu Tyr Asn Gln Val Arg Tyr	
233 785 790 795	
235 acc att ttc cct cgt gaa gac aca gat aag gac ctg ata atg atc gac	2632
236 Thr Ile Phe Pro Arg Glu Asp Thr Asp Lys Asp Leu Ile Met Ile Asp	
237 800 805 810	
239 ttc ctc acg ggt caa att tcc gtg aac aca agc ggc gcc atc gac gcg	2680
240 Phe Leu Thr Gly Gln Ile Ser Val Asn Thr Ser Gly Ala Ile Asp Ala	
241 815 820 825	
243 gat act cct cca cgc ttc cac ctc tac tat aca gtg gtc gct agt gac	2728
244 Asp Thr Pro Pro Arg Phe His Leu Tyr Tyr Thr Val Val Ala Ser Asp	
245 830 835 840	
247 cga tgc tcg aca gaa gat cct gca gat tgc ccc cct gac ccg act tat	2776
248 Arg Cys Ser Thr Glu Asp Pro Ala Asp Cys Pro Pro Asp Pro Thr Tyr	
249 845 850 855 860	
251 tgg gaa acc gaa gga aat atc aca atc cac atc acc gac acg aac aac	2824
252 Trp Glu Thr Glu Gly Asn Ile Thr Ile His Ile Thr Asp Thr Asn Asn	
253 865 870 875	
255 aag gtc ccg cag gcg gaa acg act aag ttc gat acc gtc gtg tat att	2872
256 Lys Val Pro Gln Ala Glu Thr Thr Lys Phe Asp Thr Val Val Tyr Ile	
257 880 885 890	
259 tac gag aac gca acc cac tta gac gag gtg gtc act ctg ata gcc agt	2920
260 Tyr Glu Asn Ala Thr His Leu Asp Glu Val Val Thr Leu Ile Ala Ser	
261 895 900 905	
263 gat ctt gac aga gac gaa ata tac cac acg gtg agc tac gtc atc aat	2968

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/457,864

DATE: 08/21/2001
TIME: 15:16:08

Input Set : N:\jumbos\457864.txt
Output Set: N:\CRF3\08212001\I457864.raw

264	Asp	Leu	Asp	Arg	Asp	Glu	Ile	Tyr	His	Thr	Val	Ser	Tyr	Val	Ile	Asn			
265	910					915						920							
267	tat	gca	gtg	aac	cct	cga	ctg	atg	aac	ttc	ttc	tcc	gtg	aac	cga	gag	3016		
268	Tyr	Ala	Val	Asn	Pro	Arg	Leu	Met	Asn	Phe	Phe	Ser	Val	Asn	Arg	Glu			
269	925						930					935				940			
271	acc	ggc	ctg	gtg	tac	gtg	gac	tat	gag	acc	cag	ggt	agt	ggc	gag	gtg	3064		
272	Thr	Gly	Leu	Val	Tyr	Val	Asp	Tyr	Glu	Thr	Gln	Gly	Ser	Gly	Glu	Val			
273							945			950			955						
275	ctg	gac	cgt	gat	ggt	gat	gaa	cca	acg	cac	cgt	atc	ttc	ttc	aac	ctc	3112		
276	Leu	Asp	Arg	Asp	Gly	Asp	Glu	Pro	Thr	His	Arg	Ile	Phe	Phe	Asn	Leu			
277							960			965			970						
279	atc	gac	aac	ttc	atg	ggg	gaa	gga	gaa	ggt	aac	aga	aat	cag	aac	gac	3160		
280	Ile	Asp	Asn	Phe	Met	Gly	Glu	Gly	Glu	Gly	Asn	Arg	Asn	Gln	Asn	Asp			
281					975			980			985								
283	aca	gaa	gtt	ctc	gtt	atc	ttg	ttg	gat	gtg	aat	gac	aat	gct	cct	gaa	3208		
284	Thr	Glu	Val	Leu	Val	Ile	Leu	Leu	Asp	Val	Asn	Asp	Asn	Ala	Pro	Glu			
285					990			995			1000								
287	ttg	cca	ccg	ccg	agc	gaa	ctc	tct	tgg	act	ata	tct	gag	aac	ctt	aag	3256		
288	Leu	Pro	Pro	Pro	Ser	Glu	Leu	Ser	Trp	Thr	Ile	Ser	Glu	Asn	Leu	Lys			
289	1005					1010					1015			1020					
291	cag	ggc	gtc	cgt	ctt	gaa	cca	cat	atc	ttc	gcc	ccg	gac	cgc	gac	gag	3304		
292	Gln	Gly	Val	Arg	Ile	Glu	Pro	His	Ile	Phe	Ala	Pro	Asp	Arg	Asp	Glu			
293					1025					1030			1035						
295	ccc	gac	aca	gac	aac	tcc	agg	gtc	ggc	tac	gag	atc	ctg	aac	ctc	agc	3352		
296	Pro	Asp	Thr	Asp	Asn	Ser	Arg	Val	Gly	Tyr	Glu	Ile	Leu	Asn	Leu	Ser			
297					1040					1045			1050						
299	acg	gag	cg	gac	atc	gaa	gtg	ccg	gag	ctg	ttt	gtg	atg	ata	cag	atc	3400		
300	Thr	Glu	Arg	Asp	Ile	Glu	Val	Pro	Glu	Leu	Phe	Val	Met	Ile	Gln	Ile			
301					1055			1060			1065								
303	gcg	aac	gtc	acg	gga	gag	ctg	gag	acc	gcc	atg	gac	ctc	aag	gga	tat	3448		
304	Ala	Asn	Val	Thr	Gly	Glu	Leu	Glu	Thr	Ala	Met	Asp	Leu	Lys	Gly	Tyr			
305					1070			1075			1080								
307	tgg	ggg	acg	tac	gct	ata	cat	ata	cg	gca	ttc	gac	cac	ggc	att	ccg	3496		
308	Trp	Gly	Thr	Tyr	Ala	Ile	His	Ile	Arg	Ala	Phe	Asp	His	Gly	Ile	Pro			
309	1085					1090					1095			1100					
311	caa	atg	tcc	atg	aac	gag	aca	tat	gag	ctg	atc	atc	cat	ccg	ttc	aac	3544		
312	Gln	Met	Ser	Met	Asn	Glu	Thr	Tyr	Glu	Leu	Ile	Ile	His	Pro	Phe	Asn			
313					1105					1110			1115						
315	tac	tac	g	c	c	t	g	atc	ttc	gtc	ttc	ccg	acc	aac	gat	gcc	3592		
316	Tyr	Tyr	Ala	Pro	Glu	Phe	Val	Phe	Pro	Thr	Asn	Asp	Ala	Val	Ile	Arg			
317					1120					1125			1130						
319	ctt	g	cg	agg	gaa	cg	g	ct	gt	atc	aat	gga	gtt	cta	g	cg	aa	3640	
320	Leu	Ala	Arg	Glu	Arg	Ala	Val	Ile	Asn	Gly	Val	Leu	Ala	Thr	Val	Asn			
321					1135			1140			1145								
323	gga	gag	ttc	ttg	gag	cg	g	atc	tcg	g	cg	act	gat	ccg	g	ac	3688		
324	Gly	Glu	Phe	Leu	Glu	Arg	Ile	Ser	Ala	Thr	Asp	Pro	Asp	Gly	Leu	His			
325					1150			1155			1160								
327	g	cg	gg	gc	gtc	gc	acc	ttc	caa	gt	g	gc	gat	g	g	aa	3736		
328	Ala	Gly	Val	Val	Thr	Phe	Gln	Val	Val	Gly	Asp	Glu	Ser	Gln	Arg				

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/457,864

DATE: 08/21/2001
TIME: 15:16:09

Input Set : N:\jumbos\457864.txt
Output Set: N:\CRF3\08212001\I457864.raw

L:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15